



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Baker et al. Docket No: 39780-2830P1C7  
Serial No: 10/006,130 Group Art Unit: 1647  
Filed: December 6, 2001 Examiner: Rachel K. Hunnicutt  
For: **SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

**DECLARATION OF NAPOLEONE FERRARA, Ph.D.,**  
**AUDREY GODDARD, Ph.D., PAUL J. GODOWSKI, Ph.D.,**  
**AUSTIN GURNEY, Ph.D., JAMES PAN, Ph.D., COLIN K. WATANABE and**  
**WILLIAM I. WOOD, Ph.D. UNDER 37 CFR 1.131**

We, Napoleone Ferrara, Ph.D., Audrey Goddard, Ph.D., Paul J. Godowski, Ph.D., Austin Gurney, Ph.D., James Pan, Ph.D., Colin K. Watanabe and William I. Wood, Ph.D. declare and say as follows:

1. We are the inventors of the above-identified application.
2. We have read and understood the claims pending in this application, and are aware that the claims have been rejected as anticipated by U.S. Patent Publication No. 2003/0096951 (Jacobs *et al.*, publication date May 22, 2003 and effective filing date August 14, 1998).
3. The polypeptide designated as PRO1244 (SEQ ID NO:130) claimed in the above-identified application in the United States was sequenced and cloned prior to August 14, 1998.
4. At the time the PRO1244 polypeptide was cloned and sequenced, one of the inventors, Austin Gurney, Ph.D., was responsible for overseeing the cloning of cDNAs which encoded novel polypeptides, including the cDNA that encoded PRO1244 polypeptide (SEQ ID NO:130) claimed in the above-identified application.

5. At the time the PRO1244 polypeptide was cloned and sequenced, one of the inventors, Audrey Goddard, Ph.D., was, and still is, responsible for overseeing the sequencing of novel polypeptides, including the PRO1244 polypeptide (SEQ ID NO:130) claimed in the above-identified application.
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10/14/04

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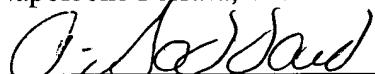
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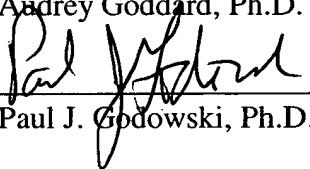
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Audrey Goddard, Ph.D.

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Paul J. Godowski, Ph.D.

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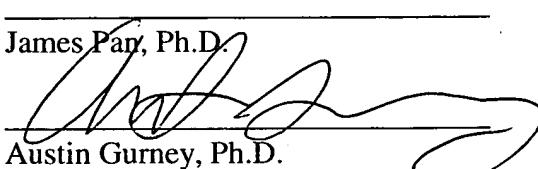
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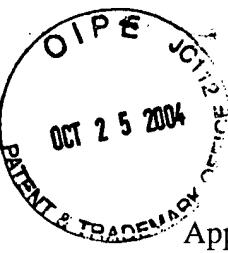
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Alexandria, Virginia 22313-1450

**DECLARATION OF NAPOLEONE FERRARA, Ph.D.,**  
**AUDREY GODDARD, Ph.D., PAUL J. GODOWSKI, Ph.D.,**  
**AUSTIN GURNEY, Ph.D., JAMES PAN, Ph.D., COLIN K. WATANABE and**  
**WILLIAM I. WOOD, Ph.D. UNDER 37 CFR 1.131**

We, Napoleone Ferrara, Ph.D., Audrey Goddard, Ph.D., Paul J. Godowski, Ph.D., Austin Gurney, Ph.D., James Pan, Ph.D., Colin K. Watanabe and William I. Wood, Ph.D. declare and say as follows:

1. We are the inventors of the above-identified application.
2. We have read and understood the claims pending in this application, and are aware that the claims have been rejected as anticipated by U.S. Patent Publication No. 2003/0096951 (Jacobs *et al.*, publication date May 22, 2003 and effective filing date August 14, 1998).
3. The polypeptide designated as PRO1244 (SEQ ID NO:130) claimed in the above-identified application in the United States was sequenced and cloned prior to August 14, 1998.
4. At the time the PRO1244 polypeptide was cloned and sequenced, one of the inventors, Austin Gurney, Ph.D., was responsible for overseeing the cloning of cDNAs which encoded novel polypeptides, including the cDNA that encoded PRO1244 polypeptide (SEQ ID NO:130) claimed in the above-identified application.

5. At the time the PRO1244 polypeptide was cloned and sequenced, one of the inventors, Audrey Goddard, Ph.D., was, and still is, responsible for overseeing the sequencing of novel polypeptides, including the PRO1244 polypeptide (SEQ ID NO:130) claimed in the above-identified application.
6. A cDNA clone, referred to as DNA64883-1526 in the above-identified application, was identified as encoding the PRO1244 polypeptide.
7. The full length of the cDNA clone is shown in Figure 73 of the above-identified application. The full-length cDNA sequence has 2213 nucleotide residues. The full length of the PRO1244 peptide encoded by DNA64883-1526 is shown in Figure 74 of the above-identified application. The full-length PRO1244 polypeptide has 335 amino acid residues.
8. Copies of the pages from the GSeqEdit database which report the cloning and sequencing data for the PRO1244 polypeptide sequence and its encoding nucleic acid sequence are attached to this declaration (with the dates redacted) as Exhibit A.
9. The GSeqEdit report shows the full-length nucleic acid sequence for DNA-64883-1526 (identified as "DNA-64883") and the full-length PRO1244 polypeptide encoded by DNA 64883. Both the DNA-64883 and the PRO1244 polypeptide sequences were obtained prior to August 14, 1998.
10. The DNA-64883 sequence shown in the GSeqEdit report is identical to that of SEQ ID NO: 129 disclosed in the above-identified application.
11. The beginning of the cDNA sequence corresponding to SEQ ID NO: 129 in the above-identified application is shown on page 1 of the GSeqEdit database report, and the location of the first nucleotide is marked with "^insert starts here" and an arrow. The location of the last nucleotide corresponding to SEQ ID NO: 129 is shown on page 11 and is marked with an arrow.
12. The amino acid sequence shown in the GSeqEdit report is identical to that of SEQ ID NO: 130 disclosed in the above-identified application.

13. The first 26 amino acid residues of the PRO1244 polypeptide (SEQ ID NO:130) encoded by the cDNA (DNA-64883) are also shown on page 1 of the GSeqEdit report and the remaining 309 residues appear on pages 2-6 of the report.
14. All activities listed under paragraphs 4-13 were completed prior to August 14, 1998. (See Exhibit A).
15. We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information or belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful statements may jeopardize the validity of the application or any patent issued thereon.

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Napoleone Ferrara, Ph.D.

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Date

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Audrey Goddard, Ph.D.

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Date

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Paul J. Godowski, Ph.D.

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Date

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James Pan, Ph.D.

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Date

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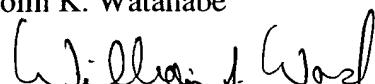
Austin Gurney, Ph.D.

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Date

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Colin K. Watanabe



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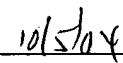
Date

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William I. Wood, Ph.D.

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Date



> [REDACTED] DNA64883 wiw GSeqEdit  
> [REDACTED] DNA64883 zemin GSeqEdit  
> [REDACTED] DNA64883 goddarda GSeqEdit  
> [REDACTED] DNA64883 sheldens GSeqEdit  
> HBN64883.seq, sequenced at ABI/ACGT by Peter Ma and Ellison Chen  
> human ortholog of implantation-associated protein - Rattus



scrFI [dcm-]  
pspGI  
mvaI  
ecoriI [dcm-]  
dsav [dcm-]  
bstNI  
bskI [dcm-]  
apyI [dcm+]  
sau3AI  
mbol/ndelII [dam-]  
dpnII [dam-]  
dpnI [dam+]  
alwI [dam-]  
bstYI/xholI  
alwNI [dcm-]  
alw26I/bsmAI  
tsp509I [M.ecori-]  
ecoriI pflMI [dcm-]  
apol bsrI [dcm-]  
mbolI hpy188III  
301 GCTGATGAA GAACTCCAGAT CCTGGCAAC TCCRGCCAT ACTCACCAC AGGATATT TTGCGATGGT GGATTGTGAT GAAGGCTCTG  
CGACTACTTC TTAAGGTCTA GGACCGTTG AGGACCGCTA TGAGGTACG TAAGGGTTG TCCATATAA AACGGTACCA CCTAAACTA CTCCGAGAC  
93 A D E E F Q I L A N S W R Y S S A F T N R I F F A M V D F D E G S D

tsp509I[M.ecori-]

ecori

hpyCH4V

sfANI

apoI

econI

hpy18I nlaRI aluI

bsI

bsI

hphI

ndeI

maelII

acII

401 ATGTATTCA GATGCTAAC ATGAAATCG CCTCAAATT CATCAACTT CCTGCAAAG GGAAACCAA ACGGGGTAT ACATATGAGT TACAGGTGCG

TACATAAAGT CTACGATTG TACCTAAGTC GAGGTGAA GTAGTGAA GGACGTTTC CCTTGTT TGCCCCACTA TGTATACCA ATGTCCACGC

127 V F Q M L N M N S A P T F I N F P A K G K P K R G D T Y E L Q V R

ddeI[M.aluI-]

bsPCNI mspl sau3AI

celII/espi hpaII mboI/hdeII[dam-]

blpI/bpu1102I scrFI[M.hpaII-]

aluI ncII dpnII[dam-]

psuII dsAV dpnI[dam-]

ssPI

tsp509I avall bsII

501 GGGTTTCA GCTGAGCAGA TTGGCCGGTG GATGCCGAC AGAACTGATG TCAATATAG AGTGATTAG CCCCCAAATT ATGCTGGTCC CCTTATGTTG

CCCAAAAGT CGACTCGTCT AACGGGCCAC CTAGCGGCTG TCTGACTAC AGTTATAATC TCACTAATCT GGGGGTTAA TACGACCAAGG GAAATACAAC

160 G F S A E Q I A R W I A D R T D V N I R V I R P P N Y A G P L M L

taqI

aluI

aluI

sfuI

tseI

bstBI

fokI

fnu4HI/bsoFI

bsI

bsI

bbVI

bael

bsI

bsI

mboII

apoI

mboI hpyCH4V

601 GGATGCTT TGGCTCTAT TGGGGACTT CTGATCTTC GAGAGAGAA TATGGATT CTCTTATA AAACTGGATG GGCTTTGCA GCTTGTGTT

CCTAACGAAA ACCGACAAATA ACCACCTGAA CACATAGAG CTCTCTCATT ATACCTAAAGA GAGAAATTAT TTGACCTAC CGGAACACAA

193 G L L L A V I G G L V Y L R R S N M E F L F N K T G W A F A A L C F



bsmFI  
 sau96I  
 nlaIV  
 avail  
 alul hpy188I mseI ec00109I/draI tru9I ppMI  
 bsmI/gsul [dcm-] bsRI csp6I  
 alul hpy188I mseI ec00109I/draI tru9I ppMI  
 bsmI/gsul [dcm-] bsRI csp6I  
 1001 ATGGCTACCC ATACACCTT CTGATGAGT AAGAGGTCC CAGAGATA TAGACACTGG AGTACTGGAA ATTGAAAC GAAATCGTG TGTGTTGAA  
 TACCGATGGG TATGTCGAAA GACTACTCAA TTTTCGAGG GTCTCTATAT ATCTGTGACC TCATGACCTT TAACTTTGT CTTTAGCAC ACACAAACTT  
 327 G Y P Y S F L M S O

tru9I  
 bsmI  
 mb01I hpyCH4V

1101 AGAAAGAATG CAACTGTAT ATTGTGATT ACCTCTTTT TCAAGTGAT TAAATAGT AATCATTTAA CCAAGAAGA TGTGTAGTC CTTAACAAAGC  
 TTCTCTTAC GTTGACATA TAAACATAA TGAGAAAAAA AAGTCACTA AATTTACAA TTGAAATT GTTCTCT ACACATCACG GAATTGTCG

mnlI  
 ddeI  
 bspCNI

mnlI tru9I mb01I tsPRI tru9I rsal tsp509I  
 hpy188I tsP509I mseI earI/ksp632I mseI csp6I mseI

1201 ATCCTCTGT CAAAACTGA GGTTTGAA ATAATTATC CTCTAACCT TCTCTCCCA GTGAACTTA TGGAACATT AATTAGTAC AATTAGTAT  
 TTAGGAGACA GTTTAGACT CCATAAACTT TATTAATAG GAGAATTGGA AGAGAAGGGT CACTGAAAT ACCTGTAA TAAATCATG TAAATCATA

mnlI  
 bsmI  
 alul hincII/hindII hpy188I bsII

psII tsp509I

1301 ATTATAAAA TTGTAAACT ACTACTTGT TTGATTTAGA ACAAGCTCA AACTACTT AGTAACTTG GTCATCTGAT TTATATGGC CTTATCCAA  
 TAAATTTT AACATTTGA TGATGAACA AAATCAACT TGTTGAGT TTGATGAAA TCAATGAC CAGTAGACTA AAATATAACG GAAATGGTT

scrFI [dcm-]  
pspGI  
mvaI  
ecoRII [dcm-]  
dsav [dcm-]  
bstNI  
bskI [dcm-]  
apyI [dcm+]  
sexAI  
hpy188III  
ndAI  
maeIII  
apoI  
dderI [M aluI-]  
xmnI  
ecoRI  
asp700  
aluI  
msII  
apoI  
fokI  
bstF5I  
1401 GATGGGAAA GAACTCTG ACCAGGTGT CCCACATAG CCTGTACAG ATAACTACAT TAGGAATICA TCTGTAGCTT CTTCATCTT GTGTGGATGT  
CTACCCCTT CATTAGGAC TGGTCCACAA GGGTGTATAC GGACATGTC TATGTATGTA ATCTTAAGT AAGATGAA GAAGTAGAAA CACACCTACA  
tail  
hgIAI/asPHI  
bsp1286  
hpy188I  
bsIKAI rmaI ddeI  
mboII  
bst1107I  
accI sfaNI  
tsp509I nlariI bbsI  
1501 GTATACTTTA CGCATCTTC CTTTGAGTA GAGAAATTAT GTGTGTATG TGGTCTCTG AAAATGGAAC ACCATCTTC AGAGCACACG TCTAGCCCTC  
CATATGAAT GCGTAGAAAG GAAACTCAT CTCTTAATA CACACAGTAC ACCAGAAGAC TTTACCTG TGGTAAGAAG TCTCGTGTGC AGATCGGGAG



scrFI [dcm-] pspGI  
mvaI  
ecoRII [dcm-] dsaV [dcm-]  
bstNI  
haeIII/paLI  
msci/balI [dcm-] eaeI [dcm-]  
cfrI  
scrFI [dcm-] pspGI  
mvaI bssKI [dcm-] ecoRII [dcm-] tsp45I  
dsaV [dcm-] maeIII  
bstNI hinPI bssKI [dcm-] tspRI  
paeI bsI [dcm-] hhaI/cfoI ddeI mlyI bsAI apyI [dcm+]  
bspcNI hinFI apyI [dcm+] btsI  
1901 AAGAGAAAA TAGGCTCACT TAGAAAGGA CTCCTGGCC AGGCCAGTG ACTAACGCCG CTAATCTCAG CACTTGGGA GGCCAGAGCA GGCAGATCAC  
TTCCTCTTTT ATCCGAGTCATCCTTTCCT GAGGGACCGG TCCGGTCACT GAGGAGTC CATTAGAGTC GTGAAACCT CGGTTCCGT CGGTCTAGTG  
bssS hpy18 sau3AI mbol/nd dpnII [d  
mliI bsAI dpnI [da

mscI/balI[dcm-]

eaEI[dcm-]

scrFI[dcm-]

pspGI

mvAI

ecoRII[dcm-]

dsAV[dcm-]

esp3I

bstNI

bsM1I bssKI[dcm-]

taqI fokI cfrI nlari

bsM1I

hpy188III bsaI bstF5I haerII/palI

bsM1I

2001 GAGGTAGGA GTTCGAGACC ATCTGGCCA ACATGGGAA ACCCGGTC TACTAATAT ATAAATTA GCTGGGTG GGGCAGGAG CCTGTAATCC CTCAGTCTGG TAGGACCGGT TGTACCACTT TGGGGAGAG ATGATTTA TATTTTAAT CGACCCACAC CACCGTCTC GGACATTAGG

scrFI[dcm-]

pspGI

mvAI

ecoRII[dcm-]

dsAV[dcm-]

bstNI

sau3AI btsI

hpy188III

mboI/ndelI[dam-]

dpmI[dam-] hpyCH4V

apyl[dcm+]

ddeI

bsPCNI hinFI

bsPCNI

mlII tspRI

bsPCNI

mlII

bsS1I

2101 CAGCTACACA GGAGGTGAG GCACGAGAAT CACTGAACT CAGGAGATGG AGGTTCAGT GAGCCGAGAT CACCCACTG CACTCCAGGC TGGCAACAGA GTCGATGTGT CCTCCGACTC CGTGCCTTA GTGAACTGTA GTCCCTTAC TCCAAAGTCA CTCGGCTCTA GTGGGTGAC GTGAGGTGG ACCGGTGTCT

fnu4HI/bsoFI  
 haellI/pallI  
 mcrI  
 eagI/xmaIII/eclXI  
 eaeI  
 cfRI  
 pleI  
 mlyI  
 hinFI  
 bsmAI  
 acII acIII speI  
 notI maeI  
 fnu4HI/bsoFI bfaI  
 rmaI  
 bseI  
 acII acIII speI  
 2201 GCGAGACTCC ATCTCAAAA AAAAAAAA AAAAAAAA AAAAAAGGG CGGCCGCCGA CTAGTGAGC  
 CGCTCTGAGG TAGAGTTT TTTTTTT TTTTTTT TTTTTTTCC GCCGGGGCT GATCACTCG

> length: 2269

accI(GTMKAC): 1501  
 acII(CCGC): 39 498 2250 2254  
 afIII(ACRYGT): 780 1586  
 ahalII (TTAAA): 1150  
 ahDI (GACNNNNNGTC): 278 714  
 aluI(AGCT): 152 300 429 510 690 822 888 1015 1345 1476 1816 2070 2102  
 alw26I(CAGNNNCTG): 101 316  
 alwI(GGATCNNN): 318 530  
 alwNT(CAGNNNCTG): 101 316  
 apoI(RAATTY): 3 310 423 655 1464  
 apyI(CCWGG): 321 332 1422 1934 1939 2023 2189  
 asp700(GAANNNNNTTC): 1464 1749  
 aspHI(GWGCWC): 1582